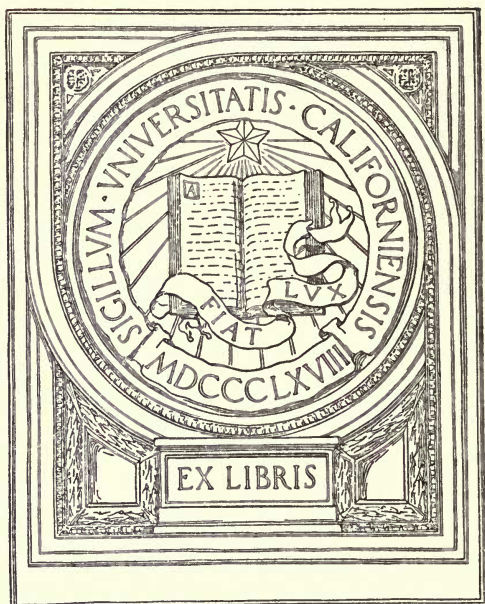


1896

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John Ritchie Jr.

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terms.

Duplicates of Jap. Mod.

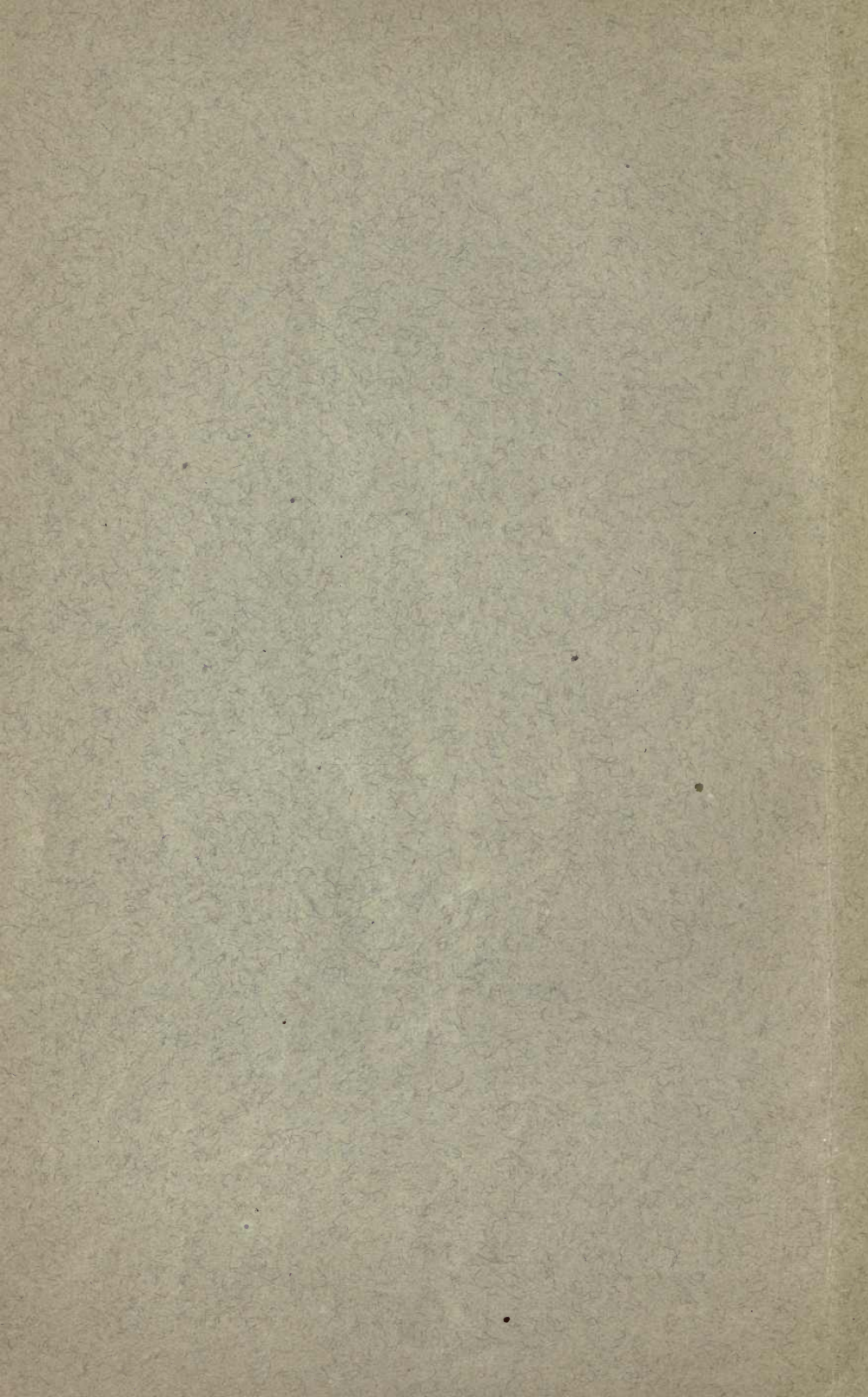
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LIST OF
DUPLICATES
OF
MARINE, LAND, AND FRESH WATER
SHELLS

From Japan, Loo Choo Islands, Bahamas,
Hawaiian Islands, Philippine Islands,
Polynesian Islands, etc.

COLLECTED BY
FREDERICK STEARNS,
DETROIT, MICHIGAN, U. S. AMERICA.

1896



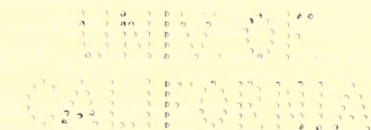
LIST OF DUPLICATES
OF
JAPANESE SHELLS

MARINE, LAND, AND FRESH WATER,

COLLECTED PERSONALLY BY

FREDERICK STEARNS

OF DETROIT, MICHIGAN, U. S. A.,



DURING HIS TWO VISITS TO JAPAN, 1889-90, AND 1892, AND OFFERED
FOR SALE OR EXCHANGE.

DETROIT:

John F. Eby, Printer, Park Place and Michigan Avenue.

1896.

QL426
J3575

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NOTE.

Reference in following lists of **DUPLICATES** is made to the pages of the new complete catalogue of the Marine Mollusks of Japan, with descriptions and illustrations of new species, and notes on others—the collections of Frederick Stearns—by Henry A. Pilsbry, Conservator of the Conchological Section of the Academy of Natural Sciences, Philadelphia, Pa., U. S. A.

The above catalogue was published by Frederick Stearns, 1895, pp. 204, plates XI, 140 figures. Price in paper covers, \$1.00; bound in cloth, \$1.50. If by mail, 12 cents extra must be sent for pre-paying postage. (See advertisement on last page of cover.)

I desire and expect to use these duplicates to obtain in exchange from other and original collectors, desirable species of shells, echinoderms, crustaceans, star fishes, corals, sponges, etc., etc., not now in my collection.

Persons receiving this list and desiring to exchange will send me a list of what they have to offer of the rarer species, not necessarily showy or striking, among which new and undetermined species and varieties will be welcome, so long as they are known to be such, and from the hands of the original collectors. I have no lists of desiderata to send to any one.

Postal charges in all cases to be paid by the sender and not by the receiver, unless under special arrangements to the contrary. The charges on large shells, or on large parcels of shells which can not be sent by mail, but which must go by express, or as freight by rail, must be paid by the receiver.

Correspondence will be acceptable in Spanish, German, French, Portuguese, as well as English.

Persons having rare shells which they prefer to sell for cash only will be treated with.

The prices affixed to the shells on this list are believed to be reasonable, and in offering shells for exchange I expect my correspondent will affix a price to each species offered, in order that an exchange or sale may be evenly and promptly adjusted.

This list comprises the duplicates of the collections of two visits to Japan, 1889-90 and 1892. The quantity of new material obtained on the last visit delayed the issue of this list for reason that two years passed before the new and complete catalogue of Japan Marine Shells could be written and published.

A list of **DUPLICATE Loo Choo, Hawaiian, and South Sea Shells** was printed in 1894, but not mailed to conchologists until now (1896), when it is enclosed with this list.

In ordering, please give the name of the list, whether Japanese, Loo Choo, Hawaiian, or other. Mention page and species, number wanted, and price.

Collectors and dealers wishing any of these shells, and not having desirable species to offer in exchange, will please write their wishes.

Some species are in considerable numbers, and shell dealers wishing to purchase such may write for particulars.

Where two prices are given, it is for varying sizes, quality, or quantity.

The largest number of species of shells in the new catalogue are those of rare museum types here and abroad, and of those of which I only found one or few, and hence those are retained as types in my personal general collection now displayed in the rooms of the Detroit Scientific Museum.

LIST OF DUPLICATES

OF

Frederick Stearns' Collection of Marine, Fresh Water, and Land

SHELLS OF JAPAN,

FOR SALE OR EXCHANGE.

SEPIIDAE.

- Page.
2. *Sepia esculenta* Hoyle. Each 15 to 25c.
3. *Sepia andreanoides* Hoyle Each 50c.
3. *Sepia kubiensis* Hoyle. Each 25 to 50c.

LOLIGINIDAE.

3. *Loligo* ? spec. Pens 31 c. m. long.
Each 25c.

SIPHONARIDAE.

5. *Siphonaria sirius* Pilsbry (new species) see plate VI, figs. 23 to 28.
Each 10c, 3 for 25c.
5. *Siphonaria sipho* Sby.
Each 10c, 3 for 25c.
6. *Siphonaria cochleariformis* Reeve.
Each 10c, 5 for 25c.
6. *Siphonaria amara* Nutt: (Loo Choo).
Each 10c, 5 for 25c.

ACTAEONIDAE.

6. *Solidula strigosa* Gld. Each 25c.

PHILINIDAE.

9. *Philine japonica* Lischke. Each 50c.

TEREBRIDAE.

11. *Terebra bifrons* Hinds. Each 30c.
12. *Terebra lischkeana* Dkr. Each 25c.
12. *Terebra (Myurella) polygyrata* Desh.
Each 15c, 3 for 35c.
12. *Terebra serotina* Ads. & Rve.
Each 20c, 3 for 50c.

CONIDAE.

13. *Conus fulmen* Reeve. Each 75c.

PLEUROTOMIDAE.

15. *Pleurotoma unedo* Val. Each 35c.
15. *Pleurotoma leucotropis* Ads. & Rve.
Each \$1.00.
16. *Columbarium (Fusus)*, pagoda Less.
Each \$5.00 to \$8.00.
This rare shell has been sold recently for as much as \$20.00 each.
17. *Drillia gracilentia* Reeve (2 only).
Each 50c.
17. *Drillia japonica* Lischke.
Each 10 to 25c.
18. *Drillia* (?) *tokyoensis* (new species),
plate II, fig. 5. Each 50c.
18. *Drillia subauriformis* Smith.
Each 50c.
19. *Oligotoma makimonos* Jouss.
Each 75c.
19. *Surcula kaderleyi* Lischke. Each 50c.
20. *Mangilia leuckarti* Dkr. Each 35c.
20. *Clathurella* ? *gainesii* (new species),
plate II, fig. 4. Each 65c.

CANCELLARIDAE.

- Page.
21. *Cancellaria spengleriana* Desh.
Each 50 to 80c.
22. *Cancellaria nodulifera* Sowb.
Each \$1.00.

OLIVIDAE.

23. *Oliva mustelina* Lamk.
Each 10c, 3 for 25c.
23. *Olivella fulgurata* Ads. & Rve.
10 for 15c.
23. *Olivella fortunei* (Ad.) Marratt (fine).
Each 10c, 3 for 25c.
23. *Olivella fortunei* (dark form), Var.
Each 15c.
23. *Olivella japonica*, Stearns.
Each 10c, 3 for 25c.

VOLUTIDAE.

24. *Voluta megaspira* Sowb.
Each 65c to \$1.50.
24. *Lyria cassidula* Rve. Each 35c.

MITRIDAE.

25. *Mitra kraussii* Dkr.
Each 15c, 3 for 35c.

FASCIOLARIIDAE.

26. *Fusus nodosoplicatus* Dkr.
Each 40 to 60c.
26. *Fusus perplexus* A. Ad. (F. *incon-*
stans Lischke). Each 20 to 40c.
26. *Fusus tuberosus* Rve. Each 25 to 50c.
27. *Fasciolaria trapezium* Linn.
Each 40 to 60c.
27. *Fasciolaria trapezium* Linn, var.
audouini Jonas. Each 75c.

BUCCINIDAE.

27. *Hemifusus ternatanus* Gmel.
Each 25 to 35c.
28. *Siphonalia cassidariaeformis* Rve.
Each 40 to 75c.
29. *Siphonalia cassidariaeformis* var. *orna-*
nata A. Ad. Each 40 to 75c.
29. *Siphonalia cassidariaeformis* var.
funeria Pils (new var.), plate II,
figs. 7, 8. Each \$1.25.
29. *Siphonalia fusoides* Rve. Each \$1.25.
29. *Siphonalia fuscolineata* Pease (6 var-
ieties of color).
Each 50c, whole suit at 40c each.
29. *Siphonalia Stearnsii* Pilsbry (new
species), plate II, figs. 1, 2 (3 only
for sale). Each \$3.00.
30. *Siphonalia (Kellettia) kelletii* Forbes.
Each 40c.

32. *Volutharpa perryi* Jay. Each 25 to 60c.
 32. *Tritonideia undulata* Schepman. Each 25 to 35c.
 32. *Euthria ferrea* Eve. (*E. viridula*). Each 15 to 25c.
 34. *Nassaria* (= *Hindsia*) *magnifica* Lischke. Each \$1.50.
 34. *Eburna japonica* Sby. Each 15 to 30c.

NASSIDAE.

35. *Nassa* (*Niotha*) *livescens* Phil. Each 10c.
 35. *Nassa* (*Hima*) *festiva* Powis. Each 5c, 6 for 25c.
 35. *Nassa fuscolineata* E. A. Smith. Each 10c, 3 for 25c.
 36. *Nassa* (*Hima*) *fraterculus* Dkr. Each 5c, 6 for 25c.
 36. *Nassa* (*Zeuxis*) *siquijorensis* A. Ad. Each 15c.
 36. *Nassa* (*Zeuxis*) *varicifera* A. Ad. var. *frater-minor* Pilsbry. Each 15c.
 37. *Nassa hypolia* Pilsbry (new species), see plate II, figs. 13, 14. Each 25c.

COLUMBELLIDAE.

38. *Columbella scripta* Lam. (versicolor Sby.) Each 6c, 6 for 25c.
 38. *Columbella pardelina* Lam. var. *sagena* Reeve. Each 5c, 6 for 25c.
 38. *Columbella misera* Sby. Each 5c, 10 for 25c.
 38. *Columbella pumila* Dkr. Each 5c, 6 for 25c.
 38. *Columbella martensi* Lischke. Each 10c, 4 for 25c.
 39. *Columbella* (*Atilia*?) *pleurotomoides* (new species), Pilsbry, see plate I, fig. 6. Each 25c.
 39. *Columbella impolita* Sby. Each 25c.
 39. *Columbella* (*Conidea*) *flava* Brug. Each 15c, 2 for 25c.
 40. *Amycla varians* Dkr. (several colors, Each 6c, 5 for 25c.

MURICIDAE.

41. *Murex tenuispina* L. Each 50c to \$1.25.
 41. *Murex troschellii* Lischke. Each 50c to \$1.00.
 41. *Murex* (*Haustellum*) *pliciferus* Sby. Each 50c to \$1.00.
 41. *Murex ramosus* Linn. (*M. brevifrons*). Each 25c to 50c.
 42. *Ocenebra contracta* Rve. Each 65c.
 43. *Ocenebra foliata* Mart. Each 20 to 30c.
 43. *Ocenebra falcata* var. *adunca* Sby. Each 50 to 75c.
 43. *Urosalpinx* (?) *birileffi* Lischke (poor) Each 15 to 30c.
 44. *Rapana bezoar* var. *thomasi* Crosse. Each 25 to 75c.
 44. *Purpura luteostoma* (Chemn.) Dillw. Each 5c, 6 for 25c.
 44. *Purpura luteostoma* var. *bronni* Dkr. Each 5c, 6 for 25c.
 44. *Purpura alveolata* Rve. Each 5c, 6 for 25c.
 44. *Purpura alveolata* var. *clavigera* Kust. Each 5c, 6 for 25c.
 44. *Purpura alveolata* var. *tumulosa* Lischke. Each 5c, 6 for 25c.

TRITONIDAE.

46. *Tritonium saullae* Rve. Each 40c to \$1.00.
 46. *Tritonium pileare* L. Each 15 to 25c.
 47. *Gyrineum rana* Lin. (*Ranella albiviridosa* Rve.). Each 35 to 50c.
 47. *Gyrineum lampas* Lin. Each 40 to 75c.

47. *Gyrineum affine* Brod. (2 only). Each 75c.
 48. *Gyrineum* (*Biplex*) *perca* Perry (*pulchra* Gray). Each 35 to 50c.

CASSIDIDAE.

48. *Cassid japonica* Rve. (C. *saburon* Lam.) Each 25c to 50c.
 48. *Cassid* (*Glanca*) *coronulata* Sby. Each 50c.

DOLIIDAE.

49. *Dolium zonatum* Green. Each 25 to 50c.
 49. *Dolium luteostoma* Kust. Each 30c to \$1.00.
 49. *Pyrula reticulata* Lam. Each 20c, 3 for 40c.

CYPRAEIDAE.

50. *Cypraea fimbriata* Gmel. Each 10 to 25c.
 50. *Cypraea macula* Ad. Each 10 to 25c.
 50. *Cypraea caputserpentis* Lin. Each 5c, 8 for 25c.
 51. *Cypraea moneta* L. var. *icterina*. Each 6c, 6 for 25c.
 51. *Cypraea annulus* Lin. Each 5c, 6 for 25c.
 51. *Cypraea vitellus* Lin. Each 15c.
 52. *Erato lachryma* Gray. Each 25c.
 52. *Ovula rhodia* Ad. Each 30c.
 53. *Volva volva* Lin. Each 25 to 50c.

STROMBIDAE.

54. *Strombus succinctus* L. var. *robustus* Sowb. Each 40c.
 55. *Strombus japonicus* Rve. Each 25c.
 55. *Strombus ustulatus* Schum. Each 50c.
 55. *Strombus luhuanus* Lin. Each 15c, 3 for 30c.

CERITHIIDAE.

56. *Cerithium humile* Dkr. Each 10c, 5 for 25c.
 56. *Cerithium* (*Colina*) *macrostoma* Hinds. Each 15c, 2 for 25c.
 56. *Clava fasciata*. Each 25c.
 56. *Clava kochi* Phil. Each 15 to 25c.
 56. *Clava vertagus* Lin. Each 30c.
 56. *Clava vertagus* var. *japonica*. Each 25c.
 56. *Clava vertagus* var. *smooth*. Each 25c.
 57. *Cerithium rhizoporum* A. Ad. Each 10c, 4 for 25c.
 57. *Potamides* (*Tympanotonos*) *fluvialilis* P. and M. Each 10c, 4 for 25c.
 57. *Potamides* (*Batillaria*) *zonalis* Brug. (in 3 varieties). Each 10c, 5 for 25c.
 57. *Potamides* (*Batillaria*) *multiformis* Lischke (in 2 varieties). Each 10c, 4 for 25c.
 57. *Potamides* (*Batillaria*) *aterrima* Dkr. Each 10c, 4 for 25c.
 58. *Triforis fusca* Dkr. Each 10c, 3 for 25c.
 58. *Triforis dunkeri* Jous. Each 25c.
 58. *Triforis* (*Viriola*) *trilineata* Dkr. Each 10c, 3 for 25c.

VERMETIDAE.

59. *Thylacodes* (*Vermetus*) *medusae* Pilsbry (new species), see plates IV and V. Each 25c to \$1.50.

LITTORINIDAE.

62. *Littorina sitchana* Phil. Each 5c, 10 for 25c.
 62. *Echinella cumingii* Phil. Each 10c, 3 for 25c.

SOLARIIDAE.

65. *Solarium cingulum* Klener.
Each 15c, 2 for 25c.

LITIOPIIDAE.

66. *Diala tenuis* E. A. Smith. 6 for 25c.

RISSOIDAE.

67. *Rissoina costulata* Dkr.
Each 10c, 5 for 25c.

ASSIMINEIDAE.

69. *Assiminea japonica* v. Marts.
Each 10c, 6 for 25c.
69. *Assiminea atomaria* Phil. Each 25c.
69. *Assiminea savatieri* Mabille.
Each 25c.

CAPULIDAE.

70. *Crepidula grandis* Midd. Each 25c.
70. *Crepidula aculeata* Gmel.
Each 10c, 4 for 25c.

HIPPONICIDAE.

70. *Hipponyx foliaceus* Q. & G.
Each 10c, 4 for 25c.
70. *Hipponyx australis* Q. & G.
Each 10c, 4 for 25c.

XENOPHORIDAE.

70. *Xenophora exuta* Rve. Each 50c.
70. *Xenophora pallidula* Rve.
Each 30c to \$1.25.

NATICIDAE.

71. *Natica taeniata* Menke.
Each 10 to 15c.
71. *Natica concinna* Dkr. Each 8 to 15c.
71. *Natica lurida* Phil. Each 10 to 15c.
71. *Natica adamsiana* Dkr.
Each 15c, 3 for 30c.
72. *Polinices melanostoma* Gmel.
Each 25c.
72. *Polinices simiae* Desh. Each 25c.
72. *Polinices (Neverita) ampla* Phil.
Each 15 to 25c, 4 for 50c.

IANTHINIDAE.

74. *Ianthina fragilis* Lam. var. *planispirata* A. & R. Each 25c.
74. *Ianthina globosa* Swains. Each 25c.

SCALIDAE.

74. *Scala (Scalaria) lineolata* Sby.
Each 10c, 4 for 25c.
75. *Scala (Scalaria) casta* A. Ad.
Each 25c.
76. *Scala (Scalaria) lamellosa* Lam.
Each 60c.

EULIMIDAE.

78. *Eulima (Leiostraca) bilineata* Ads. & Rve.
Each 30c.

PYRAMIDELLIDAE.

81. *Pyramidella (Syrnola) cinetella* Ad.
Each 10c, 3 for 25c.
81. *Pyramidella (Syrnola) brunnea* A. Ad.
Each 25c.
84. *Pyramidella (Acteoppyramis) eximia* Lischke. Each 25c.
86. *Eulimella philippiana* Dkr. (3 only).
Each 35c.
87. *Turbonilla (Cingulina) cingulata* Dkr.
Each 15c, 2 for 25c.

NERITIDAE.

88. *Nerita albicilla* L. Each 10c, 2 for 25c.
88. *Nerita pica* Gld. Each 5c, 10 for 25c.
88. *Neritina crepidularia* Lam.
Each 10c, 4 for 25c.

TURBINIDAE.

88. *Turbo marmoratus* Lin. (With operc.)
Each 25c.
88. *Turbo petholatus* Lin. Each 50c.
88. *Turbo (Senectus) argyrostomus* var. *margaritaceus* Lin. Each 10 to 25c.
88. *Turbo (Batillus) cornutus* Gmel.
Each 40 to 75c.
89. *Turbo (Marmorostoma) granulatus* Gmel. Each 15c.
89. *Turbo (Marmorostoma) corensis* Recluz. Each 20c.
89. *Astrallium (Cyclocantha) haematragus* Mke. Each 20c, 3 for 50c.
89. *Astrallium (Bolma) modestum* Rve. Each 50c.
89. *Astrallium (Pachypoma) japonicum* Dkr. (2 only). Each \$1.50.
90. *Leptothyra rubra* Dkr.
Each 15c, 2 for 25c.

PHASIANELLIDAE.

90. *Phasianella megastoma* (new species) see plate VIII, fig. 9 (2 only).
Each \$1.00
91. *Phasianella oligomphala* (new species) see plate VIII, fig. 8. Each 50c.
91. *Phasianella (Orthomesus) modesta* Gld. See plate VI, figs. 29, 30.
Each 50c.
91. *Phasianella modesta gouldii* (new variety) Pillsbry. See plate VI, fig. 31. Each 50c.

DELPHINULIDAE.

91. *Delphinula delphinula* Lin. Each \$1.
91. *Delphinula atrata* Rve. Each \$1.00

TROCHIDAE.

92. *Trochus (Tectus) mauritanus* Gmel.
T. pyramidea. Each 25c.
93. *Monodonta labio* Lin. Each 6c, 6 for 25c.
93. *Monodonta neritoides* Phil. Each 10c, 3 for 25c.
93. *Chlorostoma argyrostoma* Gmel. Each 15c.
94. *Chlorostoma turbinatum* A. Ad. See plate VI, figs 9, 10. Each 15c, 2 for 25c.
95. *Chlorostoma carpenteri* Dkr. Each 15c, 2 for 25c.
95. *Chlorostoma pfeifferi* Phil. Each 40c.
95. *Cantharidus (Thalotia) japonicus* A. Ad. Each 10c, 4 for 25c.
96. *Gibbula eucosmia* Pillsbry (new species) see plate VIII, fig. 4. Each 50c.
96. *Gibbula (Cantharidella) callichroa* Phil. Each 25c, 3 for 50c.
97. *Bathymbix argenteonitens* Lischke. Each \$1.00.
99. *Calliostoma unicum* Dkr. Each 10c, 3 for 25c.
100. *Euchelus japonicus* A. Ad. Each 6c, 5 for 25c.
100. *Euchelus bronni* Dkr. Each 6c, 5 for 25c.
100. *Euchelus pauperculus* Lischke. Each 6c, 5 for 25c.
100. *Euchelus ruber* A. Ad. Each 6c, 5 for 25c.
100. *Umbonium giganteum* Less. Ten color varieties. Common var. each 10c, 4 for 25c. Rare var. 25c each.
101. *Umbonium costatum* Less. Each 15 to 25c.

101. *Umbonium costatum* var. *superbum* Gould, no less than 21 color varieties. Com. var. 5c, 6 for 25c. Rare var. 25c each.
 102. *Umbonium moniliferum* Lam. 3 color var. Each 10c, suit for 25c.

CYCLOSTREMATIDAE.

102. *Cyclostrema pulchella* Dkr. Each 25c.

STOMATELLIDAE.

104. *Stomatella lyrata* Pilsbry. Each 25c.
 104. *Stomatella articulata* A. Ad. Each 20c, 3 for 50c.
 104. *Stomatia rubra* Lam. (3 only). Each 35c.
 104. *Stomatia phymotis* Helbling (Loo Choo Is.) Each 25c.

HALIOTIDAE.

105. *Haliotis gigantea* Gmel. Each 15 to 25c.
 105. *Haliotis gigantea*, Pearls from. Each 35 to 50c.
 105. *Haliotis diversicolor* Rve. Each 25 to 35c.
 105. *Haliotis diversicolor* var. *exigua* Dkr. Each 25 to 35c.
 105. *Haliotis diversicolor* var. *gruneri* Phil. Each 25 to 35c.
 106. *Haliotis* (*Telnotis*) *asinina* Lin. Each 10 to 25c.

FISSURELLIDAE.

107. *Macroschisma sinensis* A. Ad. 4 only see plate VI, figs. 6, 7, 8. Each \$1.
 108. *Macroschisma Lischkei* Pilsbry (new species) see plate VI, figs. 1, 2, 3, 4, 5. Each 50c.

ACMEIDAE.

110. *Acmaea schrenkii* Lischke. Typical variety (A). Var. (c) *concinna* Lischke. Vars. B, D, E. Each 10 to 25c, suit for 75c.
 111. *Acmaea heroldi* Dkr. (see plate VI, figs. 13, 14, 15, 16, 17, 18). Each 10c, 5 for 25c.
 111. *Acmaea conulus* Dkr. Each 20c, 3 for 50c.
 111. *Acmaea saccharina* Lin. vars. A, B, C, D. Each 10c, suit for 25c.

PATELLIDAE.

112. *Helcioniscus nigrisquamatus* Rve. (see plate VII., figs. 1, 2) 2 vars. Each 15 to 30c.
 112. *Helcioniscus nigrisquamatus* var. *boninensis* Pilsbry (see plate VII., fig. 3). Each 50c.
 112. *Helcioniscus eucosmius* Pilsbry (new species) see plate VII., figs. 7, 8, 9, 10. Each 25c.
 113. *Helcioniscus toreuma* Rve. Vars. A, B, C, D, E. = *H. amussitata* Rve. = *H. nigrolineata* var. *divergens* Pilsbry. Each 10 to 25c, suit for 35c.

CHITONIDAE.

115. *Liolophura japonica* Lischke. Ch. *defilippii* Tap.-Can. L. *incana* Auct. Each 15c, 2 for 25c.
 115. *Liolophura japonica* var. *tessellata* Pilsbry. Each 20c.

DENTALIIDAE.

115. *Dentalium vernedei* Hanley (1 only). Each \$5.00.
 116. *Dentalium octogonum* Lam. (vars. = *D. hexagonum* and *japonicum*). Each 5c, 10 for 25c.

PHOLADIDAE.

116. *Pholas* (*Barnea*) *manilensis* Phil. Each 15c, 2 for 25c.

CORBULIDAE.

117. *Corbula erythrodon* Lam. Each 10c, 3 for 25c.

MYACIDAE.

118. *Mya arenaria* var. *japonica* Jay, 10 for 25c.

MACTRIDAE.

118. *Macra sulcata* Desh. Each 18 to 30c.
 119. *Macra veneriformis* Desh. Each 10 to 20c.
 119. *Macra sachalinensis* Schrenck. Each 25c, 3 for 50c.
 119. *Macra* sp. ? Each 25c, 3 for 50c.
 119. *Raeta yokohamensis* (new species) see plate III., figs. 4, 5. Each 50c.
 120. *Tresus nuttalli* Conrad. Each 30c.

SOLENIIDAE.

120. *Solen grandis* Dkr. (4 only). Each 75c.
 120. *Solen gouldii* Conrad. Each 5 to 15c.
 120. *Solen krusensternii* Schrenck (4 only). Each \$1.00.
 121. *Siliqua* (*Machera*) *pulchella* Dkr. Each 10c, 4 for 25c.
 121. *Solecurtus* (*Macha*) *divaricata* Lischke. Each 25c.

DONACIDAE.

121. *Donax australis* Lam. (6 only). Each 30c.
 121. *Donax semigranosus* Dkr. Each 15c, 2 for 25c.
 122. *Donax proximus* Bertin (5 only). Each 35c.

PSAMMOBIIDAE.

122. *Soletellina boeddinghausi* Lischke (3 only). Each 50c.
 122. *Psammobia elongata* var. *japonica* Stearns. Each 25c.

TELLINIDAE.

124. *Arcopagia siamensis* Martens. Each 10c, 3 for 25c.
 124. *Tellina* (*Angulus*) *nitidula* Dkr. Each 15c, 2 for 25c.
 124. *Tellina rutila* Dkr. Each 25c.
 125. *Tellina praetexta* v. Martens. Each 25c.

PETRICOLIDAE.

125. *Petricola aequistriata* Sby. Each 25c.

VENERIDAE.

125. *Dosinia troscheli* Lischke. Each 25c.
 126. *Dosinia bilunulata* Gray. Each 25 to 40c.
 126. *Cyclina orientalis* Sby. Each 25c.
 127. *Meretrix lusoria* Chemn. 6 color vars. Common vars. 20c, 3 for 50c. Rare vars. 30c each.
 127. *Meretrix* (*Callista*) *chinensis*. Each 25c.

127. *Sunetta excavata* Hanley.
Each 25c, 3 for 50c.
127. *Venus jodoensis* Lischke (5 only).
Each 60c.
129. *Venerupis* (*Rupellaria*) *irus* Lin.
Each 15c.
129. *Tapes euglyptus* Phil. Each 50c.
129. *Tapes schnellianus* Dkr.
Each 30c, 2 for 50c.
129. *Tapes amabilis* Phil. color vars. A.
and B. Each 25 to 40c.
129. *Tapes semirugata* Phil.
Each 30c, 2 for 50c.
130. *Tapes philippinarum* Ads. & Rve. (9
color varieties). Each 6c, 9 for 40c.
130. *Saxidomus purpuratus* Desh.
Each 25c, 3 for 50c.
130. *Gomphina melanaegris* Roemer, 10
color vars. Each 30c, suit for \$2.00.

CARDIDAE.

131. *Cardium californiense* Desh.
Each 15c, 2 for 25c.
131. *Cardium muticum* Rve.
Each 25c, 3 for 60c.
131. *Mytilcardia cumingiana* Dkr.
Each 25 to 40c.

DIPLODONTIDAE.

132. *Diplodonta* (?) *semiaspera* var.) *japo-*
onica Pilsbry (new species) see
plate III, figs. 6, 7 (4 only).
Each 75c.

LUCINIDAE.

133. *Lucina pisidium* Dkr. Each 25c.
133. *Loripes philippihana* Rve. Each 25c.

PLEUROPHORIDAE.

135. *Trapezium liratum* Rve. Each 50c.

LYONSIIDAE.

137. *Entodesma truncatissima* Pilsbry
(new species) see plate III, figs. 11,
12. Each \$1.00.

ANATINIDAE.

138. *Anatina japonica* Lischke.
Each 25c, 4 for 50c.

MYTILIDAE.

139. *Mytilus crassitesta* Lischke.
Each 25c.
139. *Mytilus hirsutus* Lam.
Each 15 to 25c.
139. *Mytilus atratus* Lischke.
Each 10c, 3 for 25c.
139. *Mytilus rostratus* Dkr. Each 25c.
139. *Mytilus Dunkeri*. Each 40c.
139. *Modiola philippinarum* Hanley.
Each 15 to 30c.
139. *Modiola traillii* Rve.
Each 15c, 2 for 25c.
140. *Modiola senhausii* Rve.
Each 10c, 5 for 25c.
140. *Lithophaga* (*Lithodomus*) *curta*
Lischke. Each 20c, 2 for 30c.

ANOMIIDAE.

142. *Anomia cytaeum* Gray.
Each 10c, 5 for 25c.
142. *Anomia elyros* Gray.
Each 10c, 5 for 25c.

SPONDYLIDAE.

143. *Spondylus cruentus* Lischke.
Each 75c.

PECTENIDAE.

144. *Pecten laetus* Gould.
Var. A—Crimson to orange (col.
var.)
B—Royal purple varying to brown.
C—Pure dead white.
Each 15c, suits of 6 for 50c.
144. *Pecten yessoensis* Jay. Each 50c.
145. *Amusium japonicum* Gmel.
Each 20 to 60c.
145. *Vola laqueata* Sby.
Each 15c, 2 for 25c.

OSTRAEIDAE.

146. *Ostraea denselamellosa* Lischke.
Each 15 to 30c.
146. *Ostraea plicata* Chem. Each 20c
146. *Ostraea cucullata* Born. 6 vars.
Suits of 6 75c.

PTERIDAE (Aviculidae).

147. *Meleagrina martensii* Dkr.
Each 50c to \$1.00.
147. *Meleagrina japonica* Dkr. Each 50c.
147. *Meleagrina japonica*, Pearls from.
Each 50c to \$1.00.

PINNIDAE.

147. *Pinna japonica* Hanley.
Mature \$1.25, young 25c.

ARCIDAE.

148. *Arca kraussii* Phil.
Each 25c, 3 for 50c.
148. *Arca* (*Barbatia*) *obtusa* Rve. (*A. obli-*
quata Rve. *A. decurvata* Lischke).
Each 50c.
149. *Arca* (*Anomalocardia*) *pulchella* Dkr.
Each 25c.
149. *Arca* (*Scapharca*) *satowi* Dkr. (*A.*
setosa). Each 25c, 3 for 50c.
149. *Arca compacta* Rve.
Each 10c, 3 for 25c.
150. *Pectunculus albolineatus* Lischke.
Each 25c, 2 for 40c.

LEDIDAE.

151. *Leda confusa* Hanley (5 only).
Each 25c.

BRACHIOPODA.

152. *Terebratulina crossii* Davidson (poor)
Each \$1.00.
153. *Laqueus rubellus* Sby.
Each 15c, 3 for 30c.

LINGULIDAE.

154. *Lingula anatina* Brug. Each 10 to 15c.

HELICIDAE.

155. *Helix* (*Eulota*) *similaris*, var. *stimp-*
soni Pfr. Each 25c, 3 for 50c.
155. *Helix sieboldiana* Pfr. Each 25c.
155. *Helix* (*Euhadra*) *luhuana* Sby. var.
nimbosa Crosse in 5 varieties.
Each 10 to 20c, suit of 10 shells, 50c.
156. *Helix* (*Euhadra*) *luhuana* var. *eo-*
ae Crosse. Each 25c.
156. *Helix* (*Euhadra*) *luhuana* var.
brandti Kob. Each 25c.
156. *Helix* (*Euhadra*) *luhuana* var. *nip-*
ponensis Kob. (*H. pelliophala* Pfr.)
both plain and banded vars.
Each 10 to 25c, suits of 4 35c.
156. *Helix* (*Euhadra*) *luhuana* var. *Ama-*
liae Kob. Each 50c.

156. *Helix* (*Euhadra*) *quaesita* Desh.
Each 10 to 25c, suit for 50c.
156. *Helix* (*Euhadra*) *quaesita* var.
perryi Jay. Each 50c.

PUPIDAE.

157. *Clausilla* (*Phaedusa*) *eurystoma*
Mart. Each 10c, 4 for 25c.
157. *Clausilla* (*Hemiphaedusa*), *platyauchen*.
Each 5c, 10 for 25c.
(Other species of *Clausilla* yet
undetermined.)

SUCCINIDAE.

158. *Succinea* *lauta* Gld.
Each 10c, 4 for 25c.

AURICULIDAE.

158. *Melampus* *luteus* Q. & G. 10 for 25c.

LIMNAEIDAE.

158. *Limnaea* *japonica* Jay.
Each 5c, 8 for 25c.
158. *Limnaea* *goodwinii* Smith (L. *pervia*)
Each 6c, 6 for 25c.
158. *Planorbis* *spirillus* Gld.
Each 6c, 6 for 25c.

OPERCULATA.

158. *Pupinella* *rufa* Sby. Each 10c.

VIVIPARIDAE (Paludina).

158. *Vivipara* *stelmaphora* Bgt. var. *mal-*
leata Rve. Each 15c.

158. *Vivipara* *sclateri* Ffd. Each 15c.
Vivipara *japonica* Mart. Each 15c.
Vivipara *ingallsiana* Rve. Each 20c.

MELANIDAE.

158. *Melania* *japonica* Rve.
Each 15c, 2 for 25c.
158. *Melania* *libertina* Gld.
Each 10c, 5 for 35c.
158. *Melania* *libertina* var. *ambidextra*
Mart. Each 10c, 5 for 25c.
158. *Melania* *libertina* var. *tenuisulcata*
Dkr. Each 5c, 10 for 25c.
158. *Melania* *lobbeckei* Brot.
Each 15c, 2 for 25c.

CYRENIDAE.

159. *Corbicula* *orientalis* Desh. Each 20c.
159. *Corbicula* *japonica* Prime.
Each 15c, 3 for 30c.
159. *Corbicula* *straminea* Reinh.
Each 10c, 4 for 30c.
159. *Corbicula* *martensii* Cless. (C. *yoko-*
hamensis). Each 10c, 4 for 25c.
159. *Corbicula* *fluminea* Mill.; (C. *fuscata*
S. H. W.) Each 10c, 4 for 25c.

UNIONIDAE.

186. *Unio* *japanensis* Lea. Each 15 to 25c.
186. *Unio* *nipponensis* Mart.
Each 15 to 25c.
186. *Dipsas* *plicatus* Sol. Each 15 to 40c.
186. *Dipsas* *reinianus* Mart. Each 50c.
186. *Anodonta* *cellensis* Schrot.
Each 10 to 25c.
186. *Anodonta* *japonica* Mart.
Each 15 to 25c.
186. *Anodonta* *Woodiana* Lea.
Each 25 to 35c.

CIRRIPIEDIA.

List Copied from page 19 of my First List of Japanese Mollusca.

- Scalpellum* *Stearnsii* Pillsbry (see plate I,
fig. 1, old catalogue). Each \$1.00 to \$1.50.
Balanus *amphitrite* Darwin.
Each 15 to 25c.

- Balanus* *tintinnabulum*. Each 15 to 25c.
Pollicipes *mitella* Lin. Each 10c.
Tetraclita *porosa* Gmel. Each 15c.

MISCELLANEOUS SPECIES OF SHELLS OF WHICH I HAVE DUPLICATES, ALL OF MY OWN PERSONAL COLLECTION.

BAHAMAS.

I spent the winter of 1887-8 at Nassau, the capital of Bahama Islands, and while there made an excursion covering several weeks to the various sponge fishing banks around Andros Island, and to other islands in the vicinity. I collected nearly 200 species, of which I yet have the following in sufficient number to offer them in exchange.

AURICULIDAE.

- 9 xx *Melampus* sp.; loc. Mayport,
Florida. Each 5c, 8 for 25c.
65 xx *Melampus* *coffeus* L.; var. *con-*
formis Mft., loc. Andros, n.
side. Each 5c, 8 for 25c.

CASSIDIDAE.

- 110 x *Cassis* (s. s.) *tuberosa*, Lin.; well
grown and finely marked.
Each 75c to \$1.50.
110B x *Cassis* *flammea*, Lin.; fine.
Each 75c.

- 110C x *Cassis varians*, Mke.; fine.
Each 60c.
166 x *Cassis cameo* Stimps. Each 50c.
82 x *Cassis* (*Cassidea*) *testiculus*, Lin.;
Each 25c.
NOTE.—Large shells like these cannot
be sent by mail.

CERITHIIDAE.

- 28 xx *Cerithium nigrescens*, Mke.
Each 5c, 10 for 15c.
Cerithium atratum, Gmel.
Each 10c.

CHITONIDAE.

- 92 x *Acanthopleura granulata* Gmel.
Each 15 to 20c.

COLUMBELLIDAE.

- 163 xx *Columbella mercatoria*, Lin.;
very fine color varieties.
Each 5c, 10 for 25c.

CYPRAEIDAE.

- 89 xx *Cypraea* (s. s.) *exanthema*, Lin.;
various sizes; maculated and
reticulated. Each 10 to 25c.
Cypraea cinerea (worn).
Each 10c.

FASCIOLARIIDAE.

- 72 x *Fasciolaria tulipa*, L.; various
sizes. Each 25 to 60c.

HELICIDAE.

- 111 xx *Helix* (*Hemitrochus*) *varians*,
Mke.; very finely banded. Lot
B the same in alcohol with the
animal; Lot C, ditto faded; Lot
D, ditto bleached.
Each 10c, 5 for 25c.
Helix (*Plagioptycha*) *duclousiana*
Fer. Grantstown, Nassau.
Each 25c, 2 for 30c.
112 x *Helix* (*Thelidomus*) *provisoria*,
Pfr. (var.) Each 10c.

LITTORINIDAE.

- 10 x *Littorina* (*Melaraphe*) *scabra* L.;
var. *lineata*, Gmel. (var. *an-*
gelifera Lam. (a variety of fine
colors and with opercula.)
Each 10c, 3 for 25c.
16 x *Littorina* (*Melaraphe*) *ziczac*,
Chemn., with opercula.
Each 6c, 6 for 25c.
17 xx *Tectarius dilatatus*, D'Orb.; with
opercula. Each 6c, 6 for 25c.
18 xx *Tectarius muricatus*, Lin.; with
opercula. Each 6c, 6 for 25c.

MARGINELLIDAE.

- 43 xx *Marginella* (*Cryptospira*) *flavida*,
Redfield, beautiful shells,
bright glossy yellow.
Each 5c, 8 for 25c.
71 xx *Marginella* (*Glabella*) *opalina*,
Stearns. Each 8c, 6 for 25c.
Marginella apicina (dead).
Each 5c.

MURICIDAE.

- 12 xx *Murex* (*Chicoreus*) *Salleanus* A.
Ad. (M. pudicolor, with oper-
cula. Each 25c, 4 for 50c.
13. xx *Purpura* (s. s.) *patula*, Lin.; fine,
with opercula. Each 10 to 20c.
Purpura deltoidea, Lam. var.
fasciata Rve. Each 15c.

NATICIDAE.

- 44B xx *Natica* (s. s.) *marochiensis*,
Gmel.; var. *livida* Phil.; in al-
cohol, with animal and oper-
cula. Each 10c, 4 for 25c.
159 xx *Natica* (*Mamma*) *porcellana*,
D'Orb. Each 10c.
Natica canrena L. Each 15c.

NERITIDAE.

- 19 xx *Nerita* (*Peloronta*) *peloronta*,
Lin.; fine and large, with oper-
cula. Each 10c, 4 for 25c.
20 xx *Nerita* *Listeri* Recluz; (var.) fine,
with opercula. Each 10c.
21 xx *Nerita* (*Peloronta*) *tessellata*,
Gmel.; with opercula.
Each 5c, 6 for 25c.
21B xx *Nerita* (*Peloronta*) *versicolor*,
Lam.; with opercula.
Each 5c, 8 for 25c.
39 xx *Neritina* *virginia* L.; very
fine; requires many specimens
to exhaust the varieties of
markings. 25 for 25c.
158 xx *Neritina* pupa, Linn.; a very
beautiful shell. Each 5c, 10 for 25c.
Neritina mertoniana (N. *picta*).
Each 5c, 8 for 25c.

OLIVIDAE.

- 7 x *Oliva* (*Strephona*) *fusiformis*,
Lam.; only fair. Each 10c.
7B x *Oliva* (*Strephona*) *fusiformis*, a
tessellate variety, Lam.
Each 15c.
7D x *Oliva* (*Strephona*) *fusiformis*,
Lam.; yellowish and white
variety, fine. Each 15c.
Oliva biplicata, Sowb. (these are
from Alaska). Each 5c.
Olivella oryza Lam. 50 for 10c.

PUPIDAE.

- 23 x *Strophia marmorata*, Pfr.
Each 10c, 3 for 25c.
26 *Strophia glans*, Kuster.
Each 10c, 5 for 25c.

STROMBIDAE.

- 86 x *Strombus gigas*, L.; with oper-
cula. Each 50c.
86B x *Strombus gigas*, L.; opercula
only. Each 10c.
85 xx *Strombus gigas*; young; several
stages of growth; quite unlike
the adult shell and in good
colors. Each 5c.
50 x *Strombus costatus*, Gmel.
Each 75c.
84 xx *Strombus bituberculatus*, Lam.
Each 25c.

TEREBRIDAE.

- 35 x *Terebra* (*Myurella*) *dislocata*,
Say; color varieties. Each 10c.

TROCHIDAE.

- 22 xx *Trochus* (*Livona*) *pica* L.; with
opercula various ages.

VERMETIDAE.

- Each 10 to 25c.
Vermetus spiratus Phil.
Each 25c.
Vermetus conicus Dillw.
Each 35c.

CARDIDAE.

Laevicardium serratum. Each 25c.

LUCINIDAE.

31 x *Lucina Pennsylvanica*, Lin. Each 15 to 20c.
 6 xx *Lucina* (*Codakia*) *tigrina*, Desh.; several stages of growth, the inner lip and hinge being tinged either with pink, yellow or purple, forming three color varieties. Each 20c, 2 for 30c.

AVICULIDAE.

25 xx *Perna* (*Isognomon*) *ephippium*, Lin. Each 25c.

TELLINIDAE.

611 x *Tellina laevigata*, Lin. Each 20c.
 1 xx *Asaphis sanguinolaria*; var. *coccinea*, Martyn. Each 10c.
Asaphis sanguinolaria; yellow color variety. Each 10c.
Asaphis sanguinolaria; purple color variety. Each 10c.

PHILIPPINE ISLANDS.

Cochlostyla daphnis Brod. Each 50c.
Cochlostyla fulgetum Sby. (*C. Pfeifferi* Brod.) Each 50c.
Cochlostyla woodiana (varieties) Lam. Each 75c.
Cochlostyla intorta Sby. Each 75c.
Cochlostyla palawanensis Fer. Each 75c.
Cochlostyla roissyana Fer. Each 25c.
Cochlostyla lignaria Pfr. Each 60c.
Cochlostyla pithogaster Fer. Each 50c.
Helix (*Camaena*), *palawanica* Sh. Each 50c.
Nanina (*Rhysota*) *lamarckiana* Lin. Each 25c.
Nanina (*Rhysota*) *lamarckiana* var. *caducior* Rve. Each 30c.
Nanina Mullerii Pfr. Each 25 to 50c.
Helix (*Obba*) *rota* Brod. Each 25c.

Helix (*Chloraea*) *amoena* Pfr. Each 25c.
Helix (*Chloraea*) *sirena* Beck. Each 50c.
Bulimus romblonensis Pfr. Each 75c.
Oliva ispidula Duc. (fine color var.) Each 10c.
Oliva ispidula var. Each 15c.
Oliva sanguinolenta Lam. Each 10c.
Oliva sanguinolenta var. *elegans* Lam. Each 15c.
Cyclophorus linguiferus Sowb. Each 40c.
Cyclophorus tigrinus Gray (w. op.) Each 40c.
Bulla (new species). Each 50c.
Nassa (s. s.) *arcularia* Phil. Each 10c.
Nassa (*Arcularia*) *globosa* Quoy. Each 15c.
Nassa (*Hebra*) *gruneri* Dkr. Each 15c.
Nassa (*Telasco*) *pecta* Dkr. Each 8c.

CALIFORNIA AND ALASKA.

Bulla nebulosa fine and large living. Each 25c.
Cardium sp? Alaska. Each 25c.
Haliotis cracherodii (polished). Each \$1.50.
Haliotis splendens (polished). Each \$1.50.

Murex bicolor Val. Low. Cal. Each 50c.
Natica Lewisii Oregon. Each 50c.
Chorus Belcheri Cal. Each \$1.00.
Solecuretus Californiensis Conr. Cal. Each 10c.

FLORIDA, ETC.

Cardium magnum, Florida. Each 15c.
Cerithidea scalariformis, Fla. 10 for 25c.
Helix (*Polygyra*) *appressa* (Savannah, Ga.) introduced. Each 10c, 6 for 25c.
Helix (*Patula*) *strigosa*, Utah. Each 10c, 4 for 25c.
Nassa obsoleta, Fla. 10 for 10c.
Littorina irrorata Say, Fla. 10 for 25c.

Murex pomum, Fla. Each 25c.
Modiola plicatula, Fla. Each 15c.
Purpura haemastoma, Fla. Each 15c.
Strombus pugilus, Fla. Each 20c.
Venus (*Mercenaria*) *listeri*. Each 25c.
Venus (*Mercenaria*) *violacea*, Fla. Each 15c.

CHINA.

Placuna spec.? polished odd valves. Each 25c.

Eburna lutosa Lam. Hong Kong. Each 10c, 5 for 25c.

SOUTH SEAS, ETC.

Conus virgo polished, South Sea Islands. Each 40c.
Littorina sp.? Ceylon. Each 5c, 10 for 25c.
Ostraea sp? (or *Chama* sp?) specimens found floating on pumice stone, in Indian Ocean, five years after the eruption of Krakatoa.

Murex ramosus Lin. large cleaned Ind. Ocean. Each \$1.00.
Umbonium vestiarium L. (*elegans*) Ceylon. Each 5c, 10 for 25c.
Gibbula adansonii, Mediterranean. 10 for 15c.
Murex brandaris, Algiers. Each 15c.

UNIONIDAE SPECIES. UNITED STATES—VARIOUS LOCALITIES.

UNIO.

Alatus.	Each 15c.
Averelli Wright.	Each 10c.
Blandigianus Lin.	Each 10c.
Camel leopardus.	Each 15c.
Glans Lea.	Each 10c.
Incrassatus.	Each 15c.
Novaeboraci Lea.	Each 20c.
Plicatus Lea.	Each 10c.
Rubiginosus Lea.	Each 20c.
Trapezoides Lea.	Each 15c.
Undulatus Bar.	Each 15c.
Ahenus Lea.	Each 20c.
Batavus (Europe).	Each 5c.
Buckleyi Lea.	Each 25c.
Ebenus Lea.	Each 10c.
Fuscatus Lea.	Each 10c.
Luteolus Lam.	Each 10c.
Nasutus Say.	Each 10c.
Purpuratus Lam.	Each 10c.
Savannahensis Lea, Ga.	Each 20c.
Trossulus Lea.	Each 15c.
Ventricosus Barnes.	Each 20c.

MARGARITANA.

Rugosa Bar.	Each 15c.
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ANODONTA.

Excentrica.	Each 15c.
Edentula, Lea.	Each 15c.
Grandis, Say.	Each 20c.
Opaca Lea.	Each 10c.
Subcarinata Anth.	Each 15c.
Ferussaciana Lea.	Each 25c.
Ferruginea Lea.	Each 15c.
Leonensis Lea.	Each 20c.
Ovata var. subinflata.	Each 10c.
Subcylindrica Lea.	Each 15c.

NOTE.—For duplicates of Loo Choo Islands Shells (pages 160 to 185 inclusive of the New Catalogue of Japan Marine Mollusca) see Special Printed List, which is sent with this or on application, and which also includes a list of many duplicate shells from Hawaiian Islands, Samoa, and other localities in the South Seas.

BARBADOES, BRITISH WEST INDIES.

List of Duplicates of Shells from 175 Species personally collected there in Winter and Spring of 1896.

Fissurella (Cremides) barbadensis Gmel.	Each 10c., 5 for 25c.
Fissurella (Cremides) barbadensis var.	Each 12c., 3 for 30c.
Fissurella (Glyphis) alternata Say.	Each 8c., 5 for 25c.
Fissurella (Glyphis) listeri Orb.	Each 15c.
Fissurella (Cremides) nodosa Born.	Each 20c.
Emarginula (Submarginula) octoradiata Ad.	Each 15c., 3 for 25c.
Patella (Aemaea) cubensis Rve.	Each 10c., 4 for 25c.
Patella (Helcioniscus) punctulata Gmel.	Each 10c., 4 for 25c.
Patella (Helcioniscus) candeana Orb.	Each 15c.
Pileopsis (Capulus) intortus Lam.	Each 20c.
Hipponyx antiquatus Lin.	Each 6c.
Tectarius nodulosus Lam.	Each 5c., 10 for 25c.
Tectarius muricatus Lin.	Each 5c., 10 for 25c.
Littorina (Melaraphe) zievae Ch. var. lineata Orb.	Each 5c., 10 for 25c.
Trivia pediculus Lin.	Each 5c., 10 for 25c.
Trivia suffusa Gray.	Each 8c., 5 for 25c.
Trivia quadripunctata Gray.	Each 8c., 4 for 25c.
Trivia nivea Gray.	Each 15c.
Ovula (Cyphoma) gibbosa Lin.	Each 30c.
Olivella jaspidea	Each 5 c., 8 for 25c.
Terebra (Hastula) cineria Born. var. Jamaicensis C. B. Ad. (fine).	Each 10c., 3 for 25c.
Terebra (Subula) hastata Gmel.	Each 10c., 4 for 25c.
Terebra (Euryta) aciculata Lam.	Each 10c., 3 for 25c.
Columbella (Nitidella) nitida Lam.	Each 6c., 6 for 25c.
Columbella (Nitidella) laevigata Lin.	Each 6c., 6 for 25c.
Columbella (Pygmaea) mercatoria Lin. Some remarkably large and fine specimens; color var.	Each 10c.; ordinary form 15 for 25c.

Cassis flammea Lin. (very fine).	Each \$1.00.
Cassis (Cassidea) testiculus Lin. (very fine).	Each 25c.
Planaxis pedicularis Lin. var. lineata, DaCost. Some large, pale,	6 for 25c.
Some smaller, dark var.	10 for 25c.
Pisania pusio L. (fair only).	Each 25c.
Polia (Tritonidia) coromandeliana Lin (only fair).	Each 40c.
Nerita (Peleronta) tessellata Gmel.	8 for 25c.
Nerita (Peleronta) versicolor Gmel.	6 for 25c.
Neritina (Vita) viridis L.	25 for 25c.
Phasianella (Tricolia) tessellata C. B. Ad.	5 for 25c.
Astrarium (Pachypoma) tuber Lin. living with operc.	Each 15c., 2 for 25c.
Same, beach-worn, but fine.	Each 5c.
Pyramidella (Obeliscus) dolebratus Lin. Very fine, varieties.	Each 10 c., 3 for 25c.
Marginella (Persicula) eatenata Mot.	Each 10c.
Marginella (Volvaria) avena Val.	Each 15c.
Mitra (Scabricula) granulosa Lin. Young and mature, fair.	Each 10 to 25c.
Mitra barbadensis Gmel. (only fair).	Each 10 to 25c.
Voluta (Lyra) musica Lin. Fine living shells, in three well marked color varieties.	Each 15c., 3 for 50c.
(Barbadoes seems to be a metropolis for this species.)	
Chlorostoma (Omphalius) fasciatus Born. fair to good.	Each 5 to 15c.
Bulla occidentalis A. Ad. Fine to fair.	Each 5 to 10c.
Young shells, fine.	25 for 25c.
Cerithium ferrugineum Say. var. versicolor.	10 for 25c.
Strigilla carnaria Lin. Fine.	25 for 25c.

Also, a few other species not yet determined.

FREDERICK STEARNS'

LIST OF DUPLICATES OF

Marine, Land, and F. W. Shells

COLLECTED PERSONALLY IN THE

LOO CHOO ISLANDS, HAWAIIAN ISLANDS, ETC.

• 1894 •

LOO CHOO ISLAND SHELLS.

The Loo Choo Islands (Lew Chew, Liu Kiu, or Riu Kiu) include the whole series extending in a northeast and southeast direction from Japan proper to the Island of Formosa. Within the northern group lies the intersection of 130° east longitude and 30° north latitude, and in the southern group that of 125° east longitude and 25° north latitude. At the present time they belong to the Japanese Empire.

In the summer of 1891, I sent Morizo Seto, my Japanese collector, to those islands, where he remained collecting for nearly a year. The results of the trip were somewhat disappointing as to new species, inasmuch as the Loo Choo species belong more to the better known Indo-Pacific fauna than they do to the fauna of the Japanese seas.

A detailed list of the 367 species found forms an appendix to the new and complete catalogue of Japanese marine shells published by me, 1894.

In the following are those species of which I have sufficient duplicates to offer correspondents in exchange, or which are for sale for cash at the affixed prices each. Of quite a number on this list I have perhaps less than a dozen specimens each, and with these it will be, of course, first come, first served. Of the rest, specimens are more numerous

Persons receiving this list and desiring to exchange, will send me a list of what they have to offer, which must be specimens in good condition, living shells, and preferably in all cases, such as have been collected by the person desiring to exchange.

Postage or express charges to be paid by the sender, except for heavy and low-priced shells, or unless otherwise arranged for.

As I am absent from home much of the time on long extended tours of travel, correspondence directed as per address below will be forwarded to me if absent, but at such times the delay in arranging exchanges will be considerable.

Address,

FREDERICK STEARNS (Personal),

371 Lafayette Avenue,

DETROIT, MICH., U. S. A.

MURICIDÆ.

Murex (*Chicoreus*) *brevifrons*, Lam.; from Yaeyama Is.; various stages of growth. Nat. name, Yako-gai. 50 to 75c.

Purpura (*Thalessa*) *hippocastaneum*, Lin.; var. *Sulcata*; Desh.; *Hirame* Jima Is. Nat. name, Naga-bai. 15c., 3 for 25c.

Purpura (*Thalessa*) *armigera*, Chem.; Yaeyama Is. Nat. name, Konpeto-gai, meaning sweet-meat. 15c., 3 for 25c.

Ricnula (s. s.) *histris*, Lam.; Yaeyama Is. Two vars., one with pink aperture and one with darker. 30 to 40c.

Ricnula (s. s.) *horrida*, Lam.; Yaeyama Is. Nat. name, Ushi-no-guchi, momo. (bull's

mouth shell). Two vars., one with light pink aperture, the other with dark purple aperture. 25c.

TRITONIDÆ.

Triton (*Lampas*) *buffonia*, Gml. var.; Yaeyama Is. 50c. to \$1.

Triton (*Lampas*) *lampas*, Lin.; Yaeyama Is. Typical (one lot) and one lot lighter colored aperture, full grown. 50c. to \$1.

Triton (*Simpulum*) *pilearis*, Lin.; var. Yaeyama Is. 20 to 30c.

Triton (s. s.) *tritonis*, Lin.; = *T. variegatus*, Lin.; Yaeyama Is. Very fine living shells, small, medium, and full grown. 50c. to \$2.50.

FUSIDÆ.

- Fusus (s. s.) distans, Lam.; a var. of *F. inconstans*, Lischke; Yaeyama Is. 50 to 75c.
 Fusus (s. s.) inconstans, Lischke; Yaeyama Is. Nat. name, Yonaki-momo (night-crying shell). 60 to 75c.
 Fusus (s. s.) nicobaricus, Lam.; var. near *F. latirostus*, Desh.; Hirame Is. 65c.
 Fasciolaria filamentosa, Lam.; Itoma Jima Is. Nat. name, Yanaki-gai (night-crying shell). With and without opercula. 25 to 50c.
 Fasciolaria trapezium, Lam.; Hirame Is. With and without opercula. 25 to 50c.

BUCCINIDÆ.

- Siphonalia Kelletti, Forbes; Nago Is. \$1.
 Siphonalia cassidariformis; Rve.=*S. ornata* and *S. conspersa*, A. ad.; Yaeyama Is. 75c.

NASSIDÆ.

- Nassa (s. s.) hirta, Kiener; var., Yaeyama Is. Dead shells, but good. 6 for 25c.

OLIVIDÆ.

- Oliva (Porphyræa) irisans, Lam.; var. erythrostoma, Lam. Tryon's Man. V—Figs. 3, 53, 55. Hirame Jima Is. Native name, Nagabai (long shell). Fine living shells. 15 to 25c.
 Oliva (Porphyræa) musstellina, Lam.; Yaeyama Is. Fine living shells, slight color variations. 10c., 3 for 25c.

TURBINELLIDÆ.

- Turbinella (Vasum) ceramicum, Lin.; Hirame Is. Nat. name, Naga-bai (long shell). 50c.
 Turbinella (Vasum) turbinellum, Lin.; Hirame Jima Is. 50c.

MITRIDÆ.

- Mitra (s. s.) episcopalis, Lin.; Yaeyama Is. Nat. name, Takenoko-kai (bamboo-sprout shell). Fine living shells, various stages growth. 20 to 50c.
 Mitra (costellaria) exasperata, Gm. and Chem.; Yaeyama Is. Fine living shells. 15 to 25c.
 Mitra (cylindra) dactylus, Lin.; Kudaka Is. Nat. name, Hibi-bora. Fine living shells. 60c.
 Mitra (s. s.) pontificalis, Lam.; Yaeyama Is. Fine living shells. 25 to 50c.

CASSIDÆ.

- Cassis (Bezoartica) glauca, Lam.; var. near *C. Coronulata*; Sby.; except that it is continuously banded; Nago Is. Fine living shells. \$1.
 Cassis (Casmaria) vibex, Lin.=*C. torquata* Reeve; Yaeyama Is. Living shells. 25c.

DOLIDÆ.

- Dolium perdid, Lin.; Hirame Jima Is. Nat. name, Udsura-gai (quail shell). Live shells, 3½ in. by 2½ in. 25c.
 Dolium (Malea) pomum, Lin.; Yaeyama Is. Young shells, 1 in. to 1½ in. long. Nat. name, Ki-gai (interest shell). 10c.

NATICIDÆ.

- Natica (s. s.) Adamsiana, Dkr.; var., Yaeyama Is. Larger and unlike in color the type Fig. 46, in Tryon's Manual. With and without opercula. Some only fair dead shells. 15 to 40c.
 Natica (Mamma) aurantia, Lam.; light yellow variety. The callus and umbilicus like Fig. 40, Tryon's Manual. Size, 20 mm. x 22 mm., with opercula. A beautiful and distinct variety. 20c., 3 for 50c.

- Natica (s. s.) chinensis, Lam.; Yaeyama Is. Mostly young. 10c., 3 for 25c.
 Natica (Mamma) dubia, Recl., (var.); Kobashima. Very near Fig. 50, Tryon's Manual. Living shells, various growths, without opercula. 20 to 25c.
 Natica (Mamilla) melanostoma, Gml.; Yonaguni Is. Living shells, the largest 45 mm. x 33 mm. 10 to 15c.
 Natica (s. s.) sagraiana; D'Orb. (var.). Yaeyama. 25c.

TEREBRIDÆ.

- Terebra (Subula) crenulata, Lin.; Kudaka Is.; fine living shells. Nat. name, Ono-tsuna, bora (big rope shell). 25 to 40c.
 Terebra (Subula) dimidiata, Lam.; Kudaka Is.; fine living shells. 15 to 25c.
 Terebra (Subula) maculata, Lin.; Yaeyama Is. Nat. name, same as for the Mitras; living shells; different lengths. 20 to 25c.
 Terebra (Subula) muscaria, Lam.; Hirame Jima Is.; fine living shells. Nat. name, Ushi-no-tsuno, bora (bull's horn shell). 20 to 25c.

PYRAMIDELLIDÆ.

- Pyramidella (obeliscus) sulcata; A. Ad.=*O. monolis*; Ad.; Yaeyama Is.; live shells. 12 to 20c.

CONIDÆ.

- Conus (tulipæ) geographus, Lin.; a new and fine variety; neither of the three figures in Tryon's Man. accurately represent this shell; they are blotched more like Fig. 85, but not so dark, while the spire is higher than Fig. 84; length from 8 cm. to 11 cm.; living shells; Kobashima. Nat. name, Naga-bai (long shell). 50 to 75c.
 Conus (literati) literatus, Lin.; Kobashima. Living with epidermis; largest, 3 cm. long. 25 to 50c.
 Conus (literati) literatus, Lin.; var. Millepunctatus, Lam.; living, mostly mature; largest, 82 mm long, with epidermis. 25 to \$1.
 Conus (virgines) lividus, Hwass. Living, with epidermis; the largest 54 mm. long; Oshima. 20 to 25c.
 Conus (s. s.) marmoreus, Lin. Nat. name, Bote-furi, bora; Ohonme Is. Living, medium and small; largest, 6 cm. long. 10 to 30c.
 Conus (Capitanei) miles, Lin.; Kobashima. Living, with epidermis. Largest, 7 cm. long. Nat. name, Imo-gai (sweet potato shell). 20 to 40c.
 Conus (figulini) quercinus, Hwass.; var. lighter yellow than the type, spire not quite so elevated. Living shells, 8 cm. and less. Nat. name, Hibi-bora; Kudaka Is. 50c.
 Conus (tulipæ) striatus, Lin. Nat. name, Nagashi-nani. Mature and living. Yaeyama Is. 30c.
 Conus (texti) textile, Lin. Living, largest 10 cm. Kobashima. 25 to 75c.
 Conus (Capitanei) vexillum, Gml.; Itoma Jima Is. Living, with epidermis. The largest 5¼ in. long. 25 to 75c.

STROMBIDÆ.

- Strombus (monodactylus) aratum, Martyn; Itoma Jima. Living. Nat. name, Asagikai. 50c.
 Strombus (monodactylus) auris-dianæ, Lin.; var. guttatus, Martini; Itoma Jima. Living shells. 25c.
 Strombus (s. s.) canarium, Lin.; Kobashima. Living shells, with several varietal markings. 10c., 3 for 25c.

Strombus (*Euprotomus*) *lentigenosus*, Lin.; *Yaeyama* Is. Living. Nat. name, *Ushi-nomomo* (bull's nose shell). 18 to 30c.

Strombus (*mondactylus*) *pacificus*, Sw. A new and undescribed variety, with shorter spire than the type; lip radiately ridged at posterior end only; white between the ridges and the shell more ponderous. \$1.

Strombus (*canarium*) *urceus*, Lin.; var. *Sanatellus*, Ducl. Nat. name, *Hibi bora*. Kudaka Is. Living shells. 50c.

Pterocera (s. s.) *bryonia*, Gml.; *Katsuren Jima* Is. Nat. name, *Nanatsu-maimai* (seven-horned shell); Japanese name is *Kumo-gai* (spider web shell). 75c to \$1.25.

Pterocera (s. s.) *lambis*, Lin.; *Katsuren-Jima*. Living shells, adult, medium and small; one variety of which has brilliant dark chocolate cloudings on the back; also a lot of young half grown, in which the last whorl with horns has not been developed. 25 to 50c.

Pterocera (s. s.) *rugosa*, Sby.; *Katsuren-Jima*. Living shells, adult and young; in some the pink of the aperture is much darker than in others. 15 to 50c.

CYPRÆIDÆ.

Cypræa (*aricia*) *annulus*, Lin.; Kudaka. Fine living shells. 10c., 5 for 30c.

Cypræa (*aricia*) *Arabica*, Lin.; Kudaka. Fine living shells; typical. 10 to 25c.

Cypræa (*aricia*) *caput anguis*, Phil.; Kudaka. Living. 25c.

Cypræa (*aricia*) *caput serpentis*, Lin.; Kudaka. Living shells, different markings. 6c., 10 for 50c.

Cypræa (s. s.) *carneola*, Lin.; Kudaka. Living. 10 to 25c.

Cypræa (*luponia*) *errones*, Lin.; Kudaka. Living. 6 to 12c.

Cypræa (s. s.) *Isabella*, Lin.; Kudaka. Living. 8 to 12c.

Cypræa (*luponia*) *lynx*, Lin.; Kudaka. Living. 10 to 15c.

Cypræa (*aricia*) *moneta*, Lin. Beautiful deep lemon variety; living; Kudaka. 5c., 10 for 40c.

Cypræa (*aricia*) *moneta*, Lin.; Fig. 40, Tryon's Man. Light yellow, 3 transverse dark bands. Fine live shells. Kudaka. 5c., 10 for 40c.

Cypræa (*aricia*) *mauritaniana*, Lin.; Kudaka. Mature, fine living shells, with 3 varietal markings. 25 to 50c.

Cypræa (s. s.) *talpa*, Lin.; Kudaka. Length, 72 mm. and smaller. Living. 15 to 30c.

Cypræa (*luponia*) *tigris*, Lin.; *Itoma Jima*. Nat. name, *Hibi bora* Jap. name, *Neko-gai* (cat shell). I obtained a number of fine living tiger cowries, which I have separated into no less than fifteen well marked color varieties. They vary from very light cream body color, sparsely blotched with brownish-black spots, to others which are clouded with velvety-brown, like precious tortoise shell. Among them are some of immature growth. The whole of this series is incomparably finer in lustre and polish over those imported in bulk, which are generally much scratched and without lustre. 25 to 50c.

Cypræa (*luponia*) *vitellus*, Lin. Living, with varietal markings. Kudaka. 10c., 3 for 25c.

Ovula (s. s.) *ovum*, Lin.; *Hirame Jima*. Living. 40c.

CERITHIDÆ.

Cerithium (s. s.) *echinatum*, Lam.; var. *mutatum*; Sby.; Kudaka Is. Nat. name, *Chiu-bora*. Mature and living shells. 25c.

Cerithium (s. s.) *nodulosum*, Brug.; *Kobashima* Is. Living shells. The largest species of the family. 25c.

Cerithium (s. s.) *tuberculatum*, Lin.; var.; *Yaeyama* Is. Mature and living. 20c.

Cerithium (*vertagus*) *vertagus*, Lin.; *Katsuren Jima* Is. Nat. name, *Shiro-ji-tsu-tan-bora*. One lot white var., Fig. 69, Tryon Man., and one lot chestnut-colored, Fig. 70; all fine and living shells. 15 to 20c.

LITTORINIDÆ.

Littorina (s. s.) *littoralis*, Lin.; *Yaeyama* Is. Living. 15c.

Littorina (*melarapha*) *ziczac*, Chem.; var. Living. *Yaeyama* Is. 6 to 10c.

Tectarius *bullatus*, Mart.; var. *Yaeyama* Is. With opercula, living shells, like Fig. 58, Tryon's Manual, except that this has a rather deep umbilicus. 15c.

NERITIDÆ.

Nerita (s. s.) *albicilla*, Lin.; *Yaeyama* Is. Several color varieties, with opercula. 10c., 3 for 25c.

Nerita (*odontostoma*) *picea*, Recl.; *Yaeyama* Is. All living shells. 5c., 10 for 30c.

Nerita (*odontostoma*) *polita*, Lin.; *Yaeyama* Is. Nat. name, *Tsume-gai* (nail shell). Fine living shells, with many color varieties, one the largest and most beautiful of the *Neritas*. 5c., 10 for 25c.

Nerita (*Clithon*) *Sowerbyana*, Recl.; *Yaeyama* Is. Living, with opercula. 25c.

TURBINIDÆ.

Turbo (*Senectus*) *argyrostomus*, Lin.; *Katsuren Jima* Is.; var. without elevated vaulted scales on the livæ. Live shells, with and without opercula, also another lot from Kudaka Is., similar but smaller, with and without opercula. 15 to 25c.

Turbo (*battillus*) *cornutus*, Gml.; Kudaka Is. One lot living shells, same as the type, some with opercula; another lot, a variety with but one row of tubercles instead of two, as in the type, with opercula. 40c. to \$1.

Turbo (*Marmoristoma*) *coronatus*, Gml.; var. *granulatus*, Gml.; *Yaeyama* Is. With opercula living; two vars., one similar to the figure in Tryon's Manual, but most of them more nodulated. 15 to 25c.

Turbo (s. s.) *marmoratus*, Lin.; *Yaeyama* Is. Very large, mature shells, with opercula. Nat. name, *Yako-gai*. 75c.

Turbo (s. s.) *petholatus*, Lin.; *Yona-guni* Is., which gives its native name to the shell; color vars., with and without opercula; outer lip slightly nicked. 25 to 50c.

TROCHIDÆ.

Astraliu (*bolma*) *modestum*, Rve.; *Yaeyama* Is. Nat. name, *Ishi-ni-tsu* (stone adhering shell). 75c.

Trochus (*delphinula*) *lacinia*, Lam.; *Nago* Is.; without opercula. Nat. name, *Fusakabe*, bora. Rare and full-grown living shells. 50c. to \$1.

Trochus (*lamprostoma*) *maculatus*, Lin.; var. without opercula; *Ohon-me* Is. Nat. name, *Take-gira*. 75c.

Trochus (s. s.) *niloticus*, Lin.; with opercula. Living shells; *Kobashima* Is. 50c.

Trochus (*lamprostoma*) *tubiferus*, Kirner; *Yona-guna* Is. Live shells, without opercula. 10c.

Umbonium (*Rotella*) *gigantea*, Less.; *Yaeyama* Is. Six color vars., C, D, E, F, H, as described in the first catalogue of Japanese shells, p. 77. Also a lot (K) not found hitherto, pinkish, with brown blotches and clouds. 10c., 10 for 75c.

Umbonium (Rotella) superbum, Gld.; Yaeyama Is.; color vars. 10c., 10 for 60c.

HALIOTIDÆ.

Haliotis (teinotis) asinina, Lin.; Hirame Jima Is. Nat. name, Awabi. This is one of the most curiously formed of this interesting genus. 25c., 5 for 90c.

Haliotis gigantea, Chem.; Hirame Jima Is. 25 to 50c.

Haliotis (padolus) ovina, Chem.; Kobashima Is. 15 to 25 cts.

PATELLIDÆ.

Patella nigro-squamata; (var.) a large species; Yaeyama Is. Nat. name, Sennen-gai (may you live a thousand years shell). 50c.

BULLIDÆ.

Bulla ampula, Lin.; Yaeyama Is. Color vars. only fair. 15c.

Bulla (atys) cylindrica, Helbling; Yaeyama Is. Mostly living. Nat. name, Shira kai. 10c., 3 for 25c.

HELICIDÆ.

Helix (Acusta) despecta, Gray; Yaeyama. Fine living shells in three shades of color. 25c., 5 for 75c.

Helix (Plectotropis) elegantissima, Pfr.; Yaeyama. 50c.

Helix (Plectotropis) Mackensii, Ad. Rve.; Yaeyama. Living, in two color varieties. 50c., 3 for \$1.

Helix (Aegista) oculus, Pfr.; Yaeyama. Living, differing stages of growth. 15 to 30c.

Helix (Aegista) vermis, Rve.; Yaeyama. Living slight differences in form, color, and age. 25 to 50c.

PUPIDÆ.

Clausilia (Stereophædusa) valida, Pfr.; Loo Choo Is. 30c.

LIMNÆIDÆ.

Limnæ Pervia, Marts; var. Luchuensis; Yaeyama. Living. 10c., 5 for 25c.

CYCLOSTOMIDÆ.

Cyclophorus (s. s.) turgidus, Pfr.; Yaeyama. With opercula, fine living shells in five color varieties. 20c.

MACTRIDÆ.

Mactra (trigonella) veneriformis, Desh.; Yaeyama. Living shells. 25 to 35c.

TELLINIDÆ.

Tellina (tellinella) staurella, Lam. Nat. name, Luna-gai (beach-sand shell). Yaeyama. 10c., 3 for 25c.

VENERIDÆ.

Chione (Omphalocladum) puerpura, Lin.; Kobashima. Fine living shells. 30c.

Tapes (hemitapes) striata, Chem.; var. Loo Chooensis; Yaeyama Is. 25c.

CARDIDÆ.

Cardium (Serripes) muticum, Rve.; Yaeyama Is. Fine large living shells; the interior of the valves are tinted a beautiful pinkish flesh color. 25c.

Cardium (hemicardium) cardissa, Lin. Fine living shells, from 7 cm. to 4 cm. Nat. name, Aoi gai. after the leaf of the Aoi plant, from which is formed the crest of the Tycoon. Hirame Jima. 25 to 50c.

TRIDACNIDÆ.

Tridacna crocea, Lam.=T. scaffa, Meusch. Itoma Jima. Living, 3½ to 5 in. long. 25 to 50c.

Tridacna elongata, Lam.; Itoma Jima. Nat. name, Aji-gai, living 3 to 6 in. long. Also a variety smaller than the type, and more elongated and curved, 3 to 6 in. long. 25 to 50c.

Tridacna (hippopus) maculatus, Lam.; Itoma Jima. Living, 4 to 6½ in. long. 25 to 50c.

Tridacna squamosa, Lam.; Itoma Jima. Living shells, 3½ to 4 in. long. 50c.

AVICULIDÆ.

Meleagrina Martensi, Dkr.; Yaeyama. Living, 8, 10, 12 cm. diameter; some quite smooth, others lamellated. This species is fished for the pearls they contain, both in Loo Choo and in Japan. 50c to \$1.

Malleus albus, Lam. In this the valves are straighter than in the other; very fine, large, living shells. Yaeyama. 50c to \$1.

Malleus vulgaris, Lam. The hammer-headed oyster. In this species the valves are serpentine in their length; fine, large, living shells. Yaeyama. 50c to \$1.

ARCIDÆ.

Arca (anqmalocardia) subcrenata, Lisch.; Itoma-Jima. 50c.

HAWAIIAN AND SOUTH SEA SHELLS.

The following is a list of Marine, F. W. and Land Shells, collected personally in the Hawaiian Islands in 1892, and also a number of species purchased at the Islands from collections made in the South Seas and brought thereto by the Missionary Steamer, *Morning Star*.

These Shells are for sale at the affixed prices, or they may be had in exchange for other desirable species not in my collection, particularly for such as have been personally collected by correspondents.

Postage and other charges to be met by the sender unless otherwise arranged, except for heavy or low-priced shells.

In making exchanges, the values placed upon such species by dealers is to be considered, rather than exchange of species for species, or shell for shell.

I have also a printed list of Shells for exchange or sale, collected in Japan at two different visits. It may be had on application.

A new and complete list of Japanese Marine Shells will be published by me in October, 1894, embodying my own collections, new to science, or not before reported from Japan, since Dunker's work in 1882, with critical notes by Prof. H. A. Pilsbry, and with illustrations of new species.

Address FREDERICK STEARNS (Personal),

371 Lafayette Avenue,

DETROIT, MICH., U. S. A.

Nassa (*Alectryon*) *hirta*, Kiener; Oahu. Fine living shells. 10c., 3 for 20c.

Purpura (*tribulus*) *aperta*, de Blainv.; Oahu. Living. 25c.

Ricinuia *tuberculata*, de Blainv.; Diamond Head, Oahu. Fine living shells. 10 to 15c.

Ricinuia (s. s) *ricinus*, Lin.; *R. arichnoides*; Diamond Head, Oahu. Partly living and partly beach worn. 10 to 15c.

Sistrum *foveolatum*, Pease; Pearl Harbor. Living. 50c.

Mitra (*strigatella*) *auriculoides*, Rve.; Oahu. Fair but beach worn. 25c.

Conus (*dendroconus*) *quercinus*, Brug.; var.; Pearl Harbor, Oahu. Fine living shells, various stages of growth, some with opercula and epidermis. 15 to 50c.

Strombus (*canarium*) *maculatus*, Nutt. Part from Waikiki beach, living; others from Samoa, slight differences in form, part living and part dead shells. 15c., 3 for 30c.

Cypræa (*aricia*) *tessellata*, Swains. A rare and beautiful species; some very fine, others from fair to poor. Best \$5 each, others 50c to \$2.

Cypræa (*aricia*) *caput serpentis*, Lin.; Diamond Head. Fine living shells. 8c., 10 for 50c.

Cypræa (*luponia*) *helveola*, Lin.; Kauai, Hawaii. Fine living shells. 5c., 10 for 40c.

Cypræa (*aricia*) *mauritiana*, Lin.; Oahu. Living shells. 25 to 50c.

Cypræa (*aricia*) *moneta*, Lin. A bright yellow var. used by the Hawaiians for bracelets and hat bands (leis). Living. 8c., 10 for 50c.

Melania (*Plotia*) *mauiensis*, Lea; var. 8 to 10c.

Melania (*Melanoides*) *Newcombiana*, Lea. Living shells. Pearl Harbor. 8 to 10c.

Littorina (*Melagrapha*) *Newcombiana*, Rve.; Pearl Harbor. Living. 10c., 5 for 30c.

Littorina species, from black lava; east of Diamond Head. 10c.

Hipponyx *antiquatus*, Lin.; Waikiki Beach. Fair, beach worn shells. 5c., 5 for 15c.

Nerita (*Thelicosstyla*) *morio*, Sby. Surf beat lava rocks; east of Diamond Head. Living. 10c., 5 for 30c.

Nerita (s. s.) *picea*, Recl. Surf beat lava; east of Diamond head. Living shells. 5c.

Nerita (*Peleronta*) *polita*, Lin.; var. *pliocha*; Kohala, Oahu. Very fine living shells, in twelve color varieties. 8c., 10 for 50c.

Neritina (*Alinda*) *granosa*, Sby.; Haulaii Is., of Kauai, Hawaii. Very fine and large, living, with opercula. Called by the natives, Pii-pii-ee, and used as food. 15 to 50c.

Neritina (*neripteron*) *Tahitiensis*, Less.; Waikiki Beach. Beach worn but fair. 10 to 15c.

Trochus (*polydonta*) *Sandwichiensis*, Sby. Nat. name, Oh-no-na; Pearl Harbor. Living shells, with opercula. 15 to 25c.

Patella (*Heliconiscus*) *exaratus*, Nutt. Two varieties. Surf beat black lava ledge; three miles east of Diamond Head. Nat. name, Oh-pee-hee, used as food. 10c., 5 for 40c.

- Trochomorpha (nigritella) contigua*, Pease; Nuana Valley, Oahu. Living. 30c.
- Tellina (Acropagia) rugosa*, Conr.; Honolulu harbor. Living shells. I also found this species semi-fossilized in a layer of the shore seven feet above tide water, Pearl Harbor; these smaller than the living shells. 10c., 3 for 25c.
- Mytilus (s. s.) crebristriatus*, Conr.; Pearl Harbor. Living. 5c.
- Perna (Isognomon) costellatus*, Conr.; reefs at Waikiki. Living. 15c.
- Meleagrina nebulosa*, Con. Semi-fossil, found common on the surface of an upraised island in Pearl Harbor; half shells only; none found living.
- Pecten (s. s.) superbus*, Sby., Wiamea, Oahu. Half shells only; a white variety, and one blotched with deep red. These are much used by the natives in making ornamental hat bands and wreaths (leis). 10 for 25c.
- Columbella (Engina) mendicaria*, Anth.; South Seas. Very fine living shells, best I ever saw. 6c., 10 for 40c.
- Natica (s. s.) aurantia*, Lam.; Gilbert Is. Fine living shells, no opercula. 20 to 25c.
- Natica Strangii*, Rve.; Australia. Living shells, which have been pierced for use as a necklace. 15 to 30c.
- Strombus (canarium) maculatus*, Nutt. Fine living shells. Samoa. 15 to 25c.
- Cypræa (aricia) caput serpentis*; var. *caput anguis*, Phil. Living shells from Samoa. 25c.
- Cypræa (luponia) caurica*, Lin.; Samoa. Fine living. 8 to 15c.
- Cypræa (luponia) helveola*, Lin.; South Seas. Good. 8 to 10c.
- Cypræa (aricia) intermedia*, Gray; Samoa. Living. 25c.
- Cypræa (luponia) lynx*, Lin.; Samoa. 8 to 15c.
- Cypræa (aricia) moneta*, Lin.; South Seas. Bright yellow var. 10c., 10 for 30c.
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- Truncatella semi-costata*, Montruz; Tahiti. Forming a necklace over two feet long. 10c., 10 for 50c.

THE FOLLOWING SHELLS, whose habitat is the SOUTH SEAS, were purchased in HONOLULU, brought there by the Missionary steamer, the *Morning Star*:

- Nassa (tritea) reticulata*, Lin.; South Seas. Living. 5c., 10 for 30c.
- Oliva (Strephona) erythrostroma*, Lam. Typical; fine living shells. Samoa. 20 to 25c.
- Agaronia (olivancillaria) gibbosa*, Born.; Gilbert Is. 40c.
- Olivella (epona) circicula*, Gray; Samoa. Good. 25c.
- Mitra (strigatella) limbifera*, Lam.; South Seas. Only fair. 15c.
- Mitra (strigatella) litterata*, Rve.; Samoa. Good. 15 to 25c.
- Mitra (strigatella) paupercula*, Lin.; Samoa. Fine living shells. 20 to 25c.
- Mitra (s. s.) pontificalis*, Lam.; Samoa. Living. 20 to 40c.

JUST PUBLISHED.

NEW CATALOGUE
OF THE
Marine Mollusks of Japan

WITH DESCRIPTIONS AND ILLUSTRATIONS OF
NEW SPECIES AND NOTES
ON OTHERS

COLLECTED BY FREDERICK STEARNS.

BY

HENRY A. PILSBRY,

Conservator Conchological Section of the Academy of Natural Sciences,
of Philadelphia.

This catalogue grew from the research incidental to the identification of the mollusca procured by Frederick Stearns during two visits to Japan. A portion of the collection made in 1889-'90 having been submitted to Mr. Pilsbry for identification, it was found to contain a number of new and interesting species, some of which were described and figured in the Proceedings of the Academy of Natural Sciences of Philadelphia for 1891, and in *The Nautilus*.

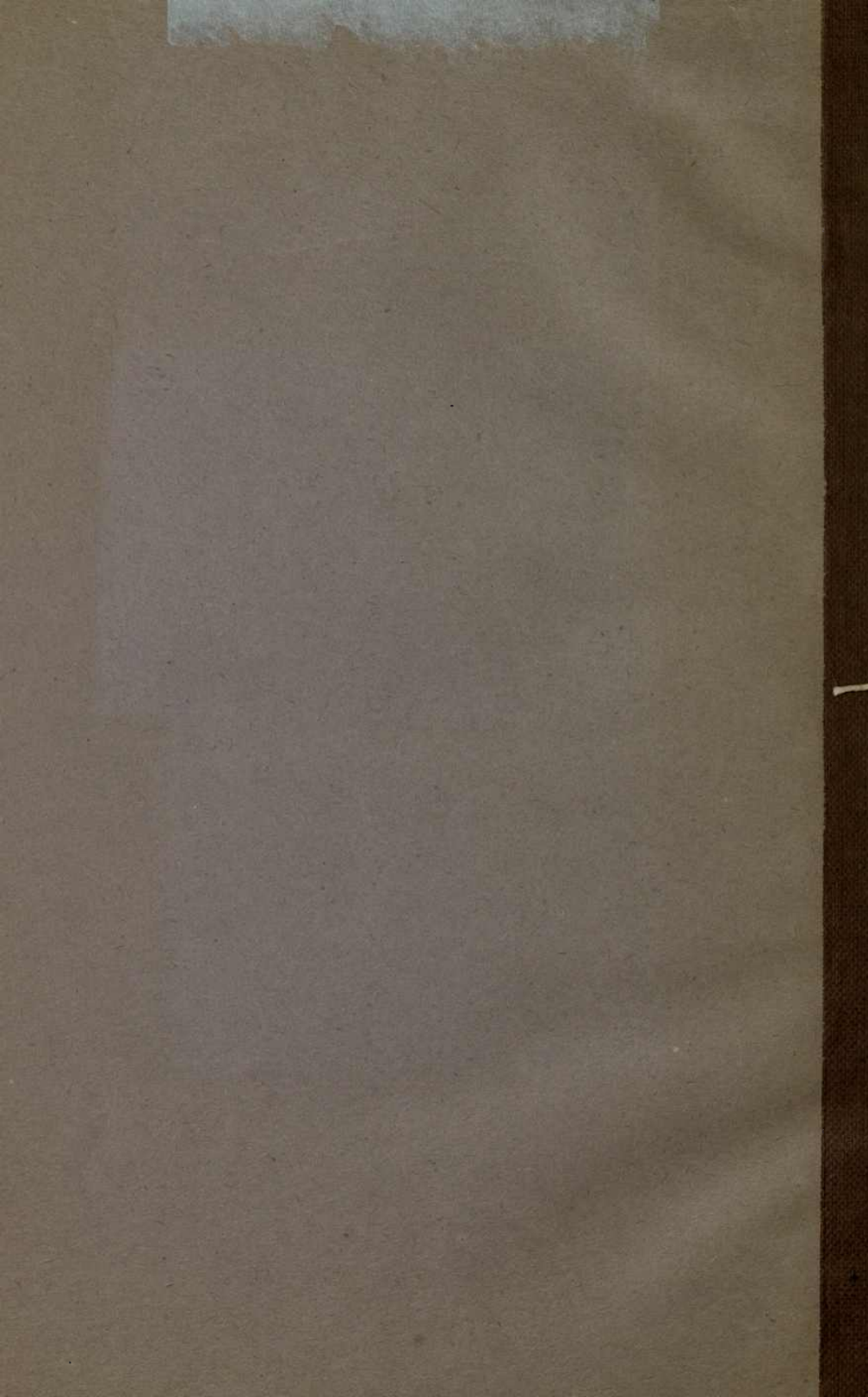
A much more extensive collection was secured by Mr. Stearns upon his second visit to Japan (1892), and it was found necessary to review so considerable an amount of conchological literature in its identification, that it seemed desirable to collate all the references to Japanese mollusks subsequent to the date of Dunker's excellent work, *Index Molluscorum Maris Japonici*, as well as those not contained in that catalogue, and, together with descriptions and figures of the new forms discovered by Mr. Stearns, to publish a new catalogue of Japanese marine mollusca. The present volume contains about five hundred species more than Dunker's Index, although a considerable number of forms enumerated by him are herein considered synonyms or are rejected from the Japanese list. Forty species and eight varieties believed to be new, are described and illustrated, including some of which diagnoses have already appeared in *The Nautilus*, and the species of certain families, such as Patellidae, Fissurellidae, etc., are somewhat critically revised.

The work consists of three portions: A list of marine mollusks which have been stated to inhabit Japan from Yezo to Kiushiu, with references to description or figures of most species, and enumeration of the special localities at which each species has been found by previous naturalists or by Mr. Stearns. This is followed by a catalogue of the Inland mollusks taken by Mr. Stearns in Japan; and finally a list of mollusks of the Loo Choo group procured by Mr. Stearns is given.

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